



STIC Search Report

EIC 3700

STIC Database Tracking Number: 146159

**TO: Andres Kashnikow
Location: RND 8A29
Art Unit: 3700
Friday, February 25, 2005**

Case Serial Number: 09/512593

**From: John Sims
Location: EIC 3700
RND 8B31
Phone: 571 272-3507**

john.sims@uspto.gov

Search Notes

NO LITIGATION FOUND for this patent.

Access DB#

146159
2/25/05

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: ANDY KASHNIKOW Examiner #: 60484 Date: 2/25/05
Art Unit: 3700 Phone Number 2-4361 Serial Number: 09512593
Mail Box and Bldg/Room Location: RND 8A29 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

LIT. SEARCH — U.S. PATENT NO.
5,876,345

STAFF USE ONLY

Type of Search		Vendors and cost where applicable
Searcher: <u>John Cinc</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>23507</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>RND 8-B35</u>	Structure (#) _____	Questel/Orbit <input checked="" type="checkbox"/>
Date Searcher Picked Up: _____	Bibliographic _____	DeLink _____
Date Completed: <u>02/25/05</u>	Litigation <input checked="" type="checkbox"/>	Lexis/Nexis <input checked="" type="checkbox"/>
Searcher Prep & Review Time: <u>10</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>20</u>	Other _____	Other (specify) _____

LITIGATION SEARCH: US 5876345 (Reissue 09/512593)

Files searched in Questel-Orbit : File PLUSPAT

?us5876345/pn

1/1 PLUSPAT - (C) QUESTEL-ORBIT- image
CPIM (C) Questel-Orbit
PN - US5876345 A 19990302 [US5876345]
TI - (A) Ultrasonic catheter, system and method for two dimensional imaging
or three-dimensional reconstruction
PA - (A) ACUSON (US)
PAO - Acuson Corporation, Mountain View CA [US]
IN - (A) EATON JOHN W (US); HOSSACK JOHN A (US)
AP - US80762197 19970227 [1997US-0807621]
PR - US80762197 19970227 [1997US-0807621]
IC - (A) A61B-008/00
EC - A61B-008/12D
- G01S-015/89D1C
- G01S-015/89D1E
- G01S-015/89D2B1
ICO - S01S-007/52S2E
- S01S-015/89D9
PCL - ORIGINAL (O) : 600466000; CROSS-REFERENCE (X) : 600463000
DT - Corresponding document
CT - USRe30397; US4140022; US4241608; US4635293; US4841977; US4917097;
US4937775; US4947852; US5000185; US5014710; US5070879; US5081993;
US5103129; US5107844; US5127409; US5159931; US5161537; US5186176;
US5186177; US5199437; US5211176; US5257629; US5273045; US5315512;
US5325860; US5327895; US5345940; US5353354; US5368037; US5377682;
US5398691; US5456259; US5469851; US5471988; US5487388; US5492125;
US5497776; US5503153; US5517537; US5529070; US5538004; US5558091;
US5566674; US5570691; US5575286; US5582173; US5590654; US5606975;
US5608849; US5699805; US5704361; US5713363; US5724978; US5776067
- Rosenfiedl et al., Three-Dimensional Reconstruction of Human Coronary
and Peripheral Arteries from Images Recorded During Two-Dimensional
Intravascular Ultrasound Examination, Corculation, vol. 84, No. 5, pp.
1938-1956, Nov. 1991.

"Early and Recent Intraluminal Ultrasound Devices, " N. Bom et al.,
International Journal of Cardiac Images 4, pgs. 79-88. (1989).

Laurence N. Bohns et al., "A Novel Method For Angle Independent
Ultrasonic Imaging of Blood Flow and Tissue Motion," (1991).

A. Shaulov et al., "Biplane Phased Array for Ultrasonic Medical
Imaging," (1988), pp. 635-638.

Timothy C. Hodges et al., "Ultrasonic Three-Dimensional
Reconstruction: In Vitro and In Vivo Volume and Area Measurement,
"(1994), pp. 719-729.

Hugh A. McCann et al., "Multidimensional Ultrasonic Imaging for
Cardiology, "(1988), pp. 1063-1072.

Elizabeth O. Ofili et al., "Three-Dimensional and Four-Dimensional
Echocardiography, "(1994), pp. 669-675.

J. Souquet et al., "Transesophageal Phased Array for Imaging the Heart," (1982), pp. 707-712.

LSI Logic, Appendix 2, "L64720 Video Motion Estimation Processor (MEP)," 1 page.

ISO/IEC Standard (MPEG Video), "Introduction -Part 2: Video," (1991) pp. 5-9.

Shinichi Tamura et al., "Three Dimensional Reconstruction of Echocardiograms Based on Orthogonal Sections," (1985) pp. 115-124.

Frederich Dohery, M.D. et al., "SONOLINE .RTM.Elegra Ultrasound Imaging Platform and Extended Field of View XFOV.TM.Imaging," (1995), 4pages.

M. Belohlavek et al., "Multidimensional Ultrasonic Visualization in Cardiology," (1992) 1137-1145.

Dan Sapoznikov et al., "Left Ventricular Shape, Wall Thickness and Function Based on Three-Dimensional", pp. 195, 496-498.

U.S. application No. 08/874,792, Seward et al., filed Jun. 13, 1997.

O'Donnell, M., et al., "Synthetic Phased Array Imaging of Coronary Arteries with an Intraluminal Array," "IEEE Ultrasonics Symposium, pp. 1251-1254 (1995).

Gussenhoven, E. et al., "Displacement Sensing Device Enabling Accurate Documentation of Catheter Tip Position," "Intravascular Ultrasound, pp. 157-166 (1993).

One page product brochure of Powerpace Enhancement Package, (date unknown).

Two page B&K Medical product brochure describing B&K 8558 transducer and B&K 8557 transducer, (date unknown).

STG - (A) United States patent

AB - An ultrasonic catheter having at least two ultrasonic arrays is provided which has good near and far field resolution and provides an outline of the heart chamber which assists in understanding and interpreting the images obtained by the catheter. Also the ultrasonic catheter allows three dimensional images to be constructed of the region examined by the catheter in a precise but facile manner.

1/1 LGST - (C) EPO

PN - US5876345 A 19990302 [US5876345]

AP - US80762197 19970227 [1997US-0807621]

ACT - 19970718 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: ACUSON CORPORATION 1220 CHARLESTON ROAD MOUNTAIN V; EFFECTIVE DATE: 19970623

- 19970718 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: EATON, JOHN W.; EFFECTIVE DATE: 19970623

- 19970718 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HOSSACK, JOHN A.; EFFECTIVE DATE: 19970627

- 20000509 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000223
- 20000926 US/CC-A
CERTIFICATE OF CORRECTION

UP - 2003-22

1/1 CRXX - (C) CLAIMS/RRX

PN - 5,876,345 A 19990302 [US5876345]

PA - Acuson Corp

ACT - 20000223 REISSUE REQUESTED

Issue Date of O.G.: 20000509

Reissue Request Number: 09/512593

Examination Group responsible for Reissue process: 3737

- 20000926 CERTIFICATE OF CORRECTION

PATENT FAMILY SEARCH:

?fam us5876345/pn

1/3 PLUSPAT - (C) QUESTEL-ORBIT

PN - AU6341298 A 19980918 [AU9863412]

STG - (A) Open to public inspection

TI - (A) Ultrasonic catheter, system and method for two-dimensional imaging
or three-dimensional reconstruction

PA - (A) ACUSON

IN - (A) EATON JOHN W; HOSSACK JOHN A

IC - (A) A61B-008/12

AP - AU6341298 19980227 [1998AU-0063412]

PR - WOUS9803841 19980227 [1998WO-US03841]

- US80762197 19970227 [1997US-0807621]

2/3 PLUSPAT - (C) QUESTEL-ORBIT- image

CPIM (C) Questel-Orbit

PN - US5876345 A 19990302 [US5876345]

STG - (A) United States patent

TI - (A) Ultrasonic catheter, system and method for two dimensional imaging
or three-dimensional reconstruction

PA - (A) ACUSON (US)

PA0 - Acuson Corporation, Mountain View CA [US]

IN - (A) EATON JOHN W (US); HOSSACK JOHN A (US)

IC - (A) A61B-008/00

AP - US80762197 19970227 [1997US-0807621]

PR - US80762197 19970227 [1997US-0807621]

EC - A61B-008/12D

- G01S-015/89D1C

- G01S-015/89D1E

- G01S-015/89D2B1

ICO - S01S-007/52S2E

- S01S-015/89D9

PCL - ORIGINAL (O) : 600466000; CROSS-REFERENCE (X) : 600463000

DT - Corresponding document

3/3 PLUSPAT - (C) QUESTEL-ORBIT- image

CPIM

PN - WO9837812 A1 19980903 [WO9837812]

STG - (A1) Publ. Of int. Appl. With int. Search rep

TI - (A1) ULTRASONIC CATHETER, SYSTEM AND METHOD FOR TWO-DIMENSIONAL IMAGING OR THREE-DIMENSIONAL RECONSTRUCTION

OTI - (A1) CATHETER ULTRASONORE, SYSTEME ET PROCEDE D'IMAGERIE BIDIMENSIONNELLE OU DE RECONSTRUCTION TRIDIMENSIONNELLE

PA - (A1) ACUSON (US); EATON JOHN W (US); HOSSACK JOHN A (US)

PAO - ACUSON CORPORATION ; 1220 Charleston Road Mountain View, CA 94043 (US) (except US)

- EATON, John, W. ; 1150 Guinda Street Palo Alto, CA 94301 (US) (only US)

- HOSSACK, John, A. ; 144 Emerson Street #E Palo Alto, CA 94301 (US) (only US)

IN - (A1) EATON JOHN W (US); HOSSACK JOHN A (US)

IC - (A1) A61B-008/12

LA - ENGLISH (ENG)

AP - WO9837812 19980227 [1998WO-US03841]

PR - US80762197 19970227 [1997US-0807621]

EC - A61B-008/12D

- G01S-015/89D1C

- G01S-015/89D1E

- G01S-015/89D2B1

ICO - S01S-007/52S2E

- S01S-015/89D9

DS - AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; GH; GM; GW; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU; ZW; ARIPO Patent (GH; GM; KE; LS; MW; SD; SZ; UG; ZW); Eurasian Patent (AM; AZ; BY; KG; KZ; MD; RU; TJ; TM); European Patent (AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE); OAPI Patent (BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG)

DT - Basic

1/2 LEGALI - (C) EPO

PN - US5876345 A 19990302 [US5876345]

AP - US80762197 19970227 [1997US-0807621]

ACTE- 19970718 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: ACUSON CORPORATION 1220 CHARLESTON ROAD MOUNTAIN V; EFFECTIVE DATE: 19970623

- 19970718 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: EATON, JOHN W.; EFFECTIVE DATE: 19970623

- 19970718 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HOSSACK, JOHN A.; EFFECTIVE DATE: 19970627

- 20000509 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000223

- 20000926 US/CC-A

CERTIFICATE OF CORRECTION

UP - 2003-22

2/2 LEGALI - (C) EPO

PN - WO9837812 A1 19980903 [WO9837812]

AP - WO/US9803841 19980227 [1998WO-US03841]
ACTE- 19980903 WO/AK [+]
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT
AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH
GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN
YU ZW
- 19980903 WO/AL [+]
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED
APPLICATION WITH SEARCH REPORT
GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE
SN TD TG
- 19981203 WO/DFPE
REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
MONTH FROM PRIORITY DATE
- 19990127 WO/121
EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS
APPLICATION
- 19990819 WO/WA [-]
WITHDRAWAL OF INTERNATIONAL APPLICATION
- 19991230 WO/REG; DE/8642 [-]
DE: IMPACT ABOLISHED FOR DE
<DE>
UP - 2003-22

SEARCH RESULTS: NO LITIGATION FOUND

1 of 1 DOCUMENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5876345

[Link to Claims Section](#)

March 2, 1999

Ultrasonic catheter, system and method for two dimensional imaging or three-dimensional reconstruction

REISSUE: Reissue Application filed Feb. 23, 2000 (O.G. May 9, 2000) Ex. Gp.: 3737; Re. S.N. 09/512,593, (O.G. May 9, 2000)

CERT-CORRECTION: September 26, 2000 - a Certificate of Correction was issued for this patent (O.G. September 26, 2000)

APPL-NO: 807621 (08)

FILED-DATE: February 27, 1997

GRANTED-DATE: March 2, 1999

ENGLISH-ABST:

An ultrasonic catheter having at least two ultrasonic arrays is provided which has good near and far field resolution and provides an outline of the heart chamber which assists in understanding and interpreting the images obtained by the catheter. Also the ultrasonic catheter allows three dimensional images to be constructed of the region examined by the catheter in a precise but facile manner.